

ABSTRACT OF THE DISCLOSURE

5 The first present invention provides a circuit for processing
charge detecting signal transferred to a floating diffusion amplifier from a
charge coupled device. The circuit comprises : a first node connected to the
floating diffusion amplifier ; a first enhancement type field effect transistor
being connected in series between a first fixed-voltage supply line for
supplying a first fixed voltage and an output terminal, and the first
10 enhancement type field effect transistor having a first gate connected to the
first node ; and a second enhancement type field effect transistor being
connected in series between a second fixed-voltage supply line for
supplying a second fixed voltage and the output terminal, wherein the
second enhancement type field effect transistor has a second gate supplied
15 with a third fixed voltage which is different in potential from the second
fixed voltage.